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DEC 28 2007

U.S. Patent Application Serial No. 10/560,618
Response to OA dated October 4, 2007

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): An LED illumination device comprising LED lamp modules coupled in a vertical direction, each LED lamp module comprising:

a base;

a conductive circuit formed on the base; and

a cover to be attached to the base to cover the conductive circuit,

whereby a coupling portion is formed on said base to be coupled with the cover of the LED lamp module located at the upper side thereof, and a mating coupling portion is formed on said cover to be coupled with the coupling portion of the base of the LED lamp module located at the lower side thereof for coupling one LED lamp module to another LED lamp module in a vertical direction.

Claim 2 (Currently Amended): ~~The~~ An LED illumination device as recited in Claim 1,
comprising LED lamp modules coupled in a vertical direction, each LED lamp module comprising:

a base;

a conductive circuit formed on the base; and

a cover to be attached to the base to cover the conductive circuit,

whereby a coupling portion is formed on said base to be coupled with the cover of the LED

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lamp module located at the upper side thereof, and a mating coupling portion is formed on said cover to be coupled with the coupling portion of the base of the LED lamp module located at the lower side thereof.

wherein said coupling portion is a locking frame projecting upward, and said mating coupling portion is a locking arm having a hook at its distal end and projecting downward to be engaged with said locking frame, and

wherein one guide, into which said locking arm is inserted, is formed on said base near the locking frame, and the other guide, into which said locking frame is inserted, is formed on the cover near the locking arm.

Claim 3 (Previously Presented): The LED illumination device as recited in claim 2,
wherein said locking frame is curved inward.

Claim 4 (Previously Presented): The LED illumination device as recited in claim 3,
wherein a guide rib is formed on a ceiling wall of the cover to straighten the curved locking frame when coupling the cover and the base to each other.

Claim 5 (Currently Amended): ~~The~~ An LED illumination device ~~as described in~~ recited in ~~Claim 1, comprising LED lamp modules coupled in a vertical direction. each LED lamp module comprising:~~

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a base;

a conductive circuit formed on the base; and

a cover to be attached to the base to cover the conductive circuit,

whereby a coupling portion is formed on said base to be coupled with the cover of the LED lamp module located at the upper side thereof, and a mating coupling portion is formed on said cover to be coupled with the coupling portion of the base of the LED lamp module located at the lower side thereof.

wherein a locking part for locking the coupled cover is formed on the base, and

a mating locking part is formed on the cover to be engaged with said locking part.

Claim 6 (Currently Amended): An LED lamp module comprising:

an insulating case having a base and a cover;

a conductive circuit provided at said base;

an LED mounted on the base and electrically connected to the conductive circuit; and

electric wire joints provided respectively upstream and downstream of the conductive circuit.

Claim 7 (Previously Presented): The LED lamp module as recited in claim 6,

wherein said conductive circuit is a bus bar or a lead terminal.

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Claim 8 (Previously Presented): The LED lamp module as recited in claim 6,
wherein said electric wire joint is a pressure contact terminal.

Claim 9 (Previously Presented): A lamp module assembly comprising a plurality of said
LED lamp modules as recited in claim 6,
wherein electric wires are directly connected to respective electric wire joints of the LED
lamp modules without any branch wires.

Claim 10 (Currently Amended): The lamp module assembly as recited in claim 9,
wherein said electric wires are wired to a junction box or a junction connector, and
wherein an electric component for reducing voltage applied to said LED lamp modules is
provided on the junction box or the junction connector.

Claim 11 (Previously Presented): The lamp module assembly as recited in claim 9,
wherein said electric wires are wired to a junction box, a junction connector or other circuits
through an electrical connector; and
an electric component for reducing voltage applied to said LED lamp modules is provided
on said electrical connector.

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Claim 12 (Original): A lamp module assembly comprising:
a plurality of LED lamp modules;
electric wires being connected directly to the LED lamp modules without any branch wires,
and wired to a junction box or a junction connector; and
an electric component provided on said junction box or said junction connector for reducing
voltage applied to said LED lamp modules.

Claim 13 (Original): A lamp module assembly comprising:
a plurality of LED lamp modules;
electric wires connected directly to the lamp module assembly without any branch wires;
an electrical connector, through which said electric wires being wired to a junction box, a
junction connector, or other circuits; and
an electric component provided on said electrical connector for reducing voltage applied to
said LED lamp modules.

Claim 14 (Previously Presented): The lamp module assembly as recited in claim 11,
wherein said electrical connector includes a base and a cover, said base having a bus bar, and
said electric component for reducing applied voltage connected to said bus bar, said bus bar having
connector terminals and being connected to electric wires.

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Claim 15 (Previously Presented): The lamp module assembly as recited in claim 14,
wherein one positive terminal of said connector terminals of the bus bar is connected to one terminal of said electric component for reducing applied voltage from a voltage source, the other positive terminal of said connector terminals is connected to an anode of a voltage source, and a negative terminal of said connector terminals is connected to a ground of the voltage source.

Claim 16 (Previously Presented): The lamp module assembly as recited in claim 13,
wherein said electrical connector includes a base and a cover, said base having a bus bar, and said electric component for reducing applied voltage connected to said bus bar, said bus bar having connector terminals and being connected to electric wires.